CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CEMENT/2016-17 Date: 30.05.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
*NAME OF THE WORK	:	Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.
*REFERENCE	:	AEE/SSD/PR/25/2016-17 Dated: 28.05.2016
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	28.05.2016
PERIOD OF TESTING	:	28.05.2016 to 30.05.2016

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	480 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/SAND-Gradation/2016-17 : 30.05.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 28.05.2016

Date of Testing : 30.05.2016

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.00	90-100	90-100	90-100	95-100
2.36	77.00	60-95	75-100	85-100	95-100
1.18	55.50	30-70	55-90	75-100	90-100
600 Micron	27.00	15-34	35-59	60-79	80-100
300 Micron	15.00	5-20	8-30	12-40	15-50
150 Micron	7.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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ಜಿಕೆವಿಕೆ ರಸ್ತೆ, ವಿವೇಕಾನಂದನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/AGG/GR/2016-17 : 30.05.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of Work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 28.05.2016

Date of Testing : 30.05.2016

Total Wt. of Aggregates in gms= **7000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.79	95-100	85-100
20	36.07	30-70	0-20
10	14.57	10-35	0-5
4.75	3.14	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17 31.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/25/2016-17 Dated: 28.05.2016
Date of Test	:	31.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	510	552	13.05	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17 31.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/25/2016-17 Dated: 28.05.2016
Date of Test	:	31.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17 31.05.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
Name of the Work	:	Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/25/2016-17 Dated: 28.05.2016
Date of Test	:	31.05.2016
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	515	558	13.35	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/Pre Cast Slab/2016-17 15.06.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

* Name of Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.
Reference	:	AEE/SSD/PR/25/2016-17 Dated: 28.05.2016
Techinical Reference	:	IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID	:	Pre cast slab
Sample Received on	:	11.06.2016
Date of Testing	:	15.06.2016

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	32.10	16.35	17.66	16.86	21.08
2	50.00	80.00	0.396	2521.01	1.60	0.960	32.85	16.73	18.07	17.35	21.68
3	50.00	81.00	0.403	2533.90	1.62	0.965	33.65	17.14	18.51	17.86	22.33

* Information is furnished by the Customer/Representative

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VISHWANATH .C
Quality Manager

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17 30.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 30.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2016	30.06.2016	8.126	475.5	21.13
2	02.06.2016	30.06.2016	8.259	490.2	21.79
3	02.06.2016	30.06.2016	8.342	496.5	22.07

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17 30.06.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 30.06.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.06.2016	30.06.2016	8.129	485.5	21.58
2	02.06.2016	30.06.2016	8.297	490.3	21.79
3	02.06.2016	30.06.2016	8.322	515.6	22.92

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17 01.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 01.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2016	01.07.2016	8.110	481.3	21.39
2	03.06.2016	01.07.2016	8.285	492.6	21.89
3	03.06.2016	01.07.2016	8.321	512.4	22.77

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E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

CIVIL-TECH CONSULTANTS AND ENGINEERS

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NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17 01.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 01.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	03.06.2016	01.07.2016	8.165	482.5	21.44
2	03.06.2016	01.07.2016	8.230	493.5	21.93
3	03.06.2016	01.07.2016	8.358	510.2	22.68

* Information is furnished by the Customer/Representative

Note:

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VISHWANATH .C
Quality Manager

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17 02.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 02.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2016	02.07.2016	8.117	499.3	22.19
2	04.06.2016	02.07.2016	8.250	510.2	22.68
3	04.06.2016	02.07.2016	8.312	529.3	23.52

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02.07.2016

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*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 02.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.06.2016	02.07.2016	8.175	480.5	21.36
2	04.06.2016	02.07.2016	8.239	493.5	21.93
3	04.06.2016	02.07.2016	8.355	510.9	22.71

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17

04.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 04.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.06.2016	04.07.2016	8.115	479.3	21.30
2	06.06.2016	04.07.2016	8.236	500.2	22.23
3	06.06.2016	04.07.2016	8.335	516.3	22.95

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VISHWANATH .C
Quality Manager

AE-13

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04.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 04.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.06.2016	04.07.2016	8.288	485.5	21.58
2	06.06.2016	04.07.2016	8.339	510.2	22.68
3	06.06.2016	04.07.2016	8.415	512.3	22.77

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VISHWANATH .C
Quality Manager

AE-13
4/7

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17

06.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2016	06.07.2016	8.119	475.5	21.13
2	08.06.2016	06.07.2016	8.280	493.3	21.92
3	08.06.2016	06.07.2016	8.315	512.2	22.76

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VISHWANATH .C
Quality Manager

AE-13
6/7

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*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : RCC Drain Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 06.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.06.2016	06.07.2016	8.097	482.2	21.43
2	08.06.2016	06.07.2016	8.190	501.3	22.28
3	08.06.2016	06.07.2016	8.228	510.2	22.68

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VISHWANATH .C
Quality Manager

AE-13
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07.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2016	07.07.2016	8.122	480.5	21.36
2	09.06.2016	07.07.2016	8.284	500.6	22.25
3	09.06.2016	07.07.2016	8.310	510.4	22.68

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*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 07.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.06.2016	07.07.2016	8.125	490.3	21.79
2	09.06.2016	07.07.2016	8.260	510.2	22.68
3	09.06.2016	07.07.2016	8.347	520.1	23.12

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09.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 09.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2016	09.07.2016	8.190	482.3	21.44
2	11.06.2016	09.07.2016	8.277	493.6	21.94
3	11.06.2016	09.07.2016	8.315	516.3	22.95

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VISHWANATH .C
Quality Manager

AE-13

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-05/051e/CUBE/2016-17

09.07.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

*** Agency** : **Technical Manager (West),** KRIDL, Bangalore.

*** Name of the work** : Construction of RCC drain adjusted to Dasarahalli road & cross at Kalyana Nagara in Ward No.13, BBMP, Bangalore.

*** Reference** : AEE/SSD/PR/25/2016-17 Dated: 28.05.2016

*** Sample ID** : Drain Covering Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 09.07.2016

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.06.2016	09.07.2016	8.178	479.3	21.30
2	11.06.2016	09.07.2016	8.226	493.6	21.94
3	11.06.2016	09.07.2016	8.310	510.2	22.68

* Information is furnished by the Customer/Representative

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VISHWANATH .C
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A6-13

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